



October 2020

GRADUATION CEREMONY QWAQWA CAMPUS

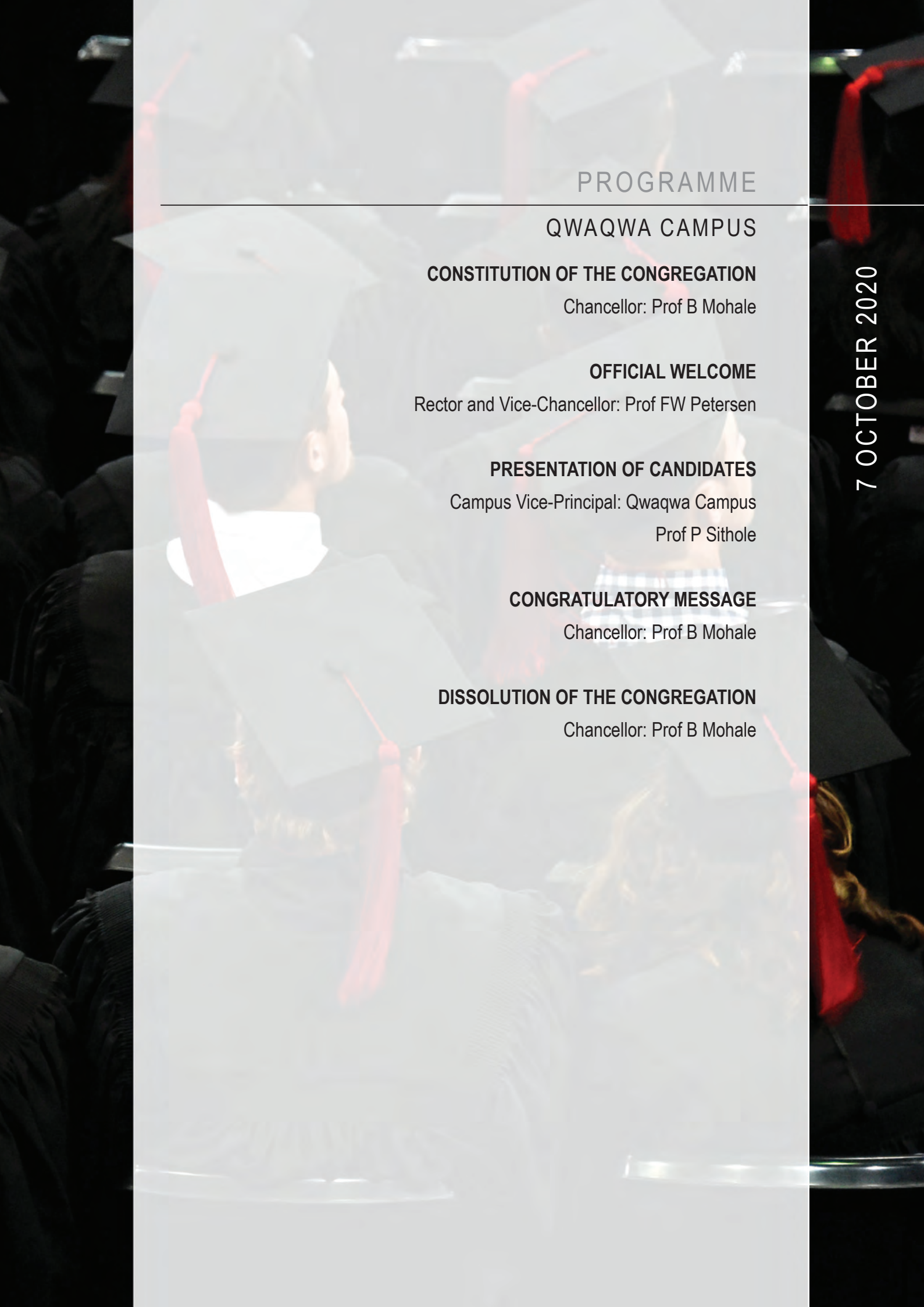
Faculties of Economic and Management Sciences, Education, The Humanities,
and Natural and Agricultural Sciences

Undergraduate qualifications, Postgraduate Certificates, Postgraduate
Diplomas, Honours Degrees, Master's Degrees and Doctoral Degrees

WEDNESDAY, 7 OCTOBER 2020 | 10:00



UNIVERSITY OF THE FREE STATE
UNIVERSITEIT VAN DIE VRYSTAAT
YUNIVESITHI YA FREISTATA



PROGRAMME

QWAQWA CAMPUS

CONSTITUTION OF THE CONGREGATION

Chancellor: Prof B Mohale

OFFICIAL WELCOME

Rector and Vice-Chancellor: Prof FW Petersen

PRESENTATION OF CANDIDATES

Campus Vice-Principal: Qwaqwa Campus
Prof P Sithole

CONGRATULATORY MESSAGE

Chancellor: Prof B Mohale

DISSOLUTION OF THE CONGREGATION

Chancellor: Prof B Mohale

7 OCTOBER 2020



NATIONAL ANTHEM OF SOUTH AFRICA

Nkosi sikelel' iAfrika

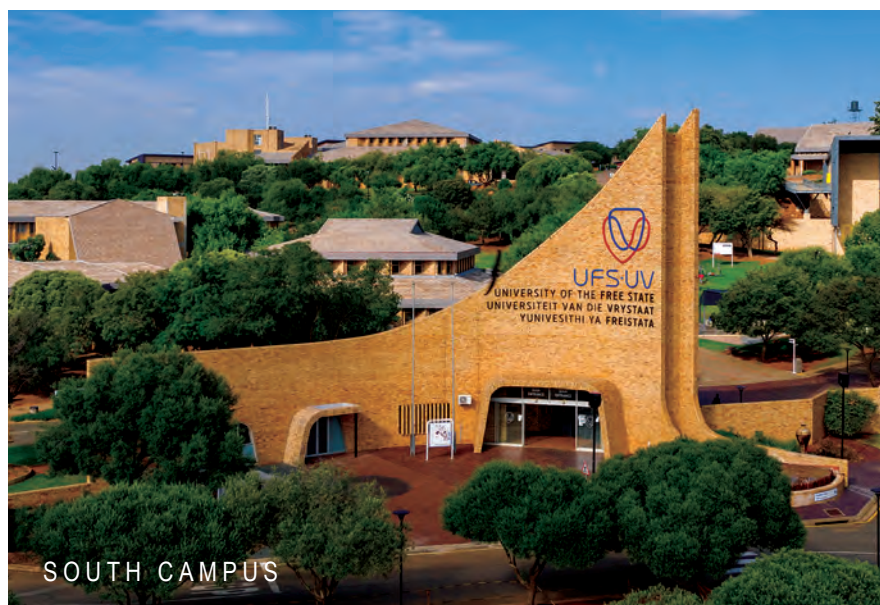
Maluphakanyisw' uphondo lwayo,
Yizwa imithandazo yethu,
Nkosi sikelela, thina lusapho lwayo.
Morena boloka setjhaba sa heso,
O fedise dintwa le matshwenyeho,
O se boloke, O se boloke setjhaba sa heso,
Setjhaba sa South Afrika -
South Afrika.
Uit die blou van onse hemel,
Uit die diepte van ons see,
Oor ons ewige gebergtes,
Waar die kranse antwoord gee,
Sounds the call to come together,
And united we shall stand,
Let us live and strive for freedom,
In South Africa our land.

ABOUT THE UFS

The University of the Free State (UFS) is one of the oldest institutions of higher education in South Africa. It opened its doors in 1904 in Bloemfontein as the Grey University College, with six students in the Humanities. Since then, the institution has grown to more than 40 000 students, spread over three campuses and across seven faculties (Economic and Management Sciences, Education, Health Sciences, the Humanities, Law, Natural and Agricultural Sciences, Theology and Religion).

Most of the students are located on the Bloemfontein Campus, with the Qwaqwa Campus situated in the picturesque Eastern Free State, serving a rapidly-growing number of rural students from the immediate area and surrounding provinces. The South Campus – also situated in Bloemfontein – serves as the centre for distance-learning programmes offered by the UFS, as well as alternative access to higher education for promising students who have not obtained the required marks in their final school examinations.

Over the years, the university has grown into an education hub which has positioned itself on the global stage, promoting research excellence, with exceptionally talented scholars and students who are recognised the world over, as well as alumni who have grown into influential leaders in society.



DEVELOPMENT OF THE UFS CREST OVER MORE THAN A CENTURY



1904

Up to 1935, the same coat of arms was used as the Grey College School.



1935

By 1935, with the name change to University College of the Orange Free State, the coat of arms fell into disuse, especially among students.



1947

In 1947, an agreement between management and students led to the new motto Per Fidem ad Sapientiam (Through faith to wisdom).



1950

In 1952, it was changed to In Deo Sapientiae Lux (In God is the light of wisdom). The traditional orange, white and blue, linking the UFS to the South African national colours, changed in the late 1990s.

The orange was replaced by cherry red.



2011

The academic brand - the historic University of the Free State crest that has been the symbol of the university since 1952, has evolved to embrace the aesthetic expectations of the stakeholders. The shape of the traditional academic shield has been simplified and contemporised. Much of the symbolism of the crest remains intact, acknowledging the location of the UFS brand as one of the country's premier institutions of higher education, with a proud history of academic excellence and an ever evolving, vibrant culture.

UNIVERSITY OF THE FREE STATE
UNIVERSITEIT VAN DIE VRYSTAAT
YUNIVESITHI YA FREISTATA



GRADUATION CEREMONY 2019

Honorary Awards | Honorary Doctorates

1950	GLP Moerdyk - DLitt (h.c.)		J du P Scholtz – DPhil (h.c.)		A Krog – DLitt (h.c.)
1951	NC Havenga – LLD (h.c.)	1986	S Grové – DMus (h.c.)		K Mokhele – DPhil (h.c.)
1952	Thos Blok – DEd (h.c.)		FP Retief – DMed (h.c.)		CJC Nel (Postuum) – PhD (h.c.)
	SHS Rubidge – DSc (h.c.)		JA Stegmann – DCom (h.c.)		L Quayle – DMus (h.c.)
1955	CR Swart – LLD (h.c.)	1987	WA Joubert – LLD (h.c.)		T (Karel) Schoeman – DLitt (h.c.)
	CA v Niekerk – LLD (h.c.)		B Kok – DPhil (h.c.)		YK Seedat – DMed (h.c.)
1958	CPB Brink – LLD (h.c.)		WP Venter – DCom (h.c.)		MK Seely – DSc (h.c.)
	CF Visser – DEd (h.c.)	1988	JJN Cloete – DAdmin (h.c.)		C Seerveld – DPhil (h.c.)
1959	DB Bosman – DLitt (h.c.)		FC Fensham – DLitt (h.c.)		F van Z Slabbert – DPhil (h.c.)
	SP le Roux – DScAgric (h.c.)		JW vd Riet –DPhil (h.c.)		JC Steyn – DLitt (h.c.)
	DF Malherbe – DLitt (h.c.)	1989	BJ Meyer – DSc (h.c.)		PA Verhoef – DTh (h.c.)
	GH v Rooyen - MA (h.c.)		N van Uden – PhD (h.c.)		L van den Heever – LLD (h.c.)
1960	SPE Boshoff – DLitt (h.c.)	1990	MG Corbett – LLD (h.c.)		HA Wessels – LLD (h.c.)
1961	T Boydell – DPhil (h.c.)		JS Rabie – DLitt (h.c.)	2005	A du P Heyns – DMed (h.c.)
1962	ES Botes – DEd (h.c.)	1991	SS Brand – DCom (h.c.)		JJF Durand – DPhil (h.c.)
	PE Rousseau – DSc (h.c.)		JWL de Villiers – DSc (h.c.)		JA Groenewald – DSc (h.c.)
1963	EH Louw – LLD (h.c.)		GT Fagan – DArch (h.c.)		WH Neuser – DTh (h.c.)
	EN Roberts – DSc (h.c.)		JH Hofmeyer – PhD (h.c.)		M Ramos - PhD (h.c.)
	JGF (Kaalkop) vd Merwe - DCom (h.c.)		E v Heerden – DLitt (h.c.)		SJ Terreblanche – DCom (h.c.)
	HF Verwoerd – DLitt et Phil (h.c.)	1992	JP Louw – DLitt (h.c.)		T Moss – PhD (h.c.)
1966	PSZ Coetzee – DPhilTh (h.c.)		H Olivier – DSc (h.c.)	2006	PV Cox – PhD (h.c.)
	PJ du Toit – DSc (h.c.)	1993	JD Anderson - DMed (h.c.)		BJ (Bannie) Britz – DArch (h.c.)
	MS Louw – DCom (h.c.)		RR Arndt – DSc (h.c.)	2007	KPD Maphalla - PhD (h.c.)
1967	SM Naudé – DSc (h.c.)		SJ Naudé – LLD (h.c.)		D Ferreira – DSc (h.c.)
	LC Steyn – LLD (h.c.)	1994	JJ Human – DPhil (h.c.)	2008	JC Look – PhD (h.c.)
	BJ Vorster – LLD (h.c.)		JA Myburgh – DMed (h.c.)	2009	LTC Harms – LLD (h.c.)
1968	SJ Naudé – DCom (h.c.)		JP vd Walt – DSc (h.c.)		P Gordhan – PhD (h.c.)
1969	CW (Nellie) Swart – DPhil (h.c.)	1995	WA Landman – DEd (h.c.)	2010	BBS Ngubane – PhD (h.c.)
	AJJ Wessels – DCom (h.c.)		WL Mouton – DPhil (h.c.)		AH Strydom – PhD (h.c.)
1970	GS Nienaber – DLitt (h.c.)	1996	WDO Marasas – DSc (h.c.)		M Jones – PhD (h.c.)
	HO Mönig – DSc (h.c.)		NE Wiehahn – LLD (h.c.)	2011	D Tutu – DTh (h.c.)
1971	N Diederichs – DCom (h.c.)	1997	AP Brink – DLitt (h.c.)		P Fourie – DLitt (h.c.)
	RS Verster – DPhil (h.c.)		B Hurwitz – DPhil (h.c.)		OG Winfrey –DEd (h.c.)
1972	LW Hiemstra – DPhil (h.c.)	1998	FC Müller – DMed (h.c.)		RWM Frater – PhD (h.c.)
	PJ Meyer – DPhil (h.c.)	1999	FM Claerhout – DPhil (h.c.)		A Sawyer – DEd (h.c.)
1975	PJ Nienaber – DLitt (h.c.)		JJF Hefer – LLD (h.c.)	2012	RJ Goldstone – LLD (h.c.)
	De la H de Villiers – DScAgric (h.c.)		S Nigam - DSc (h.c.)		ER v Heerden – DLitt (h.c.)
	GJ Stander – DSc (h.c.)		WL Nkuhlu – DCom (h.c.)		M Nussbaum – DLitt (h.c.)
1976	AJA Roux – DSc (h.c.)		MA Ramphela – DPhil (h.c.)		OW Prozesky – MD (h.c.)
1978	SP Botha – DSc (h.c.)		HJO van Heerden – LLD (h.c.)		FDJ Brand – LLD (h.c.)
	EM van Zinderen Bakker – DSc (h.c.)		FJ van der Merwe – PhD (h.c.)	2013	ZKG Mda – DLitt (h.c.)
	HB Thom – DEd (h.c.)	2000	MH Daling – DCom (h.c.)	2014	ML Blum – PhD (h.c.)
1979	FCL Bosman – DPhil (h.c.)		TN Liversedge – PhD (h.c.)		L Mulvey – DLitt (h.c.)
	G Cronjé – DSocSc (h.c.)	2001	I Mahomed – LLD (h.c.)	2015	L Brahimi – DPhil (h.c.)
	CJF Human – DCom (h.c.)		BP Gilbertson – DCom (h.c.)		JM Samuel – DEd (h.c.)
1980	G Boonzaier – DPhil (h.c.)		NR Mandela – LLD (h.c.)		MA Oduyoye – DTh (h.c.)
1981	PW Botha – DPhil (h.c.)		EC Taglauer – DSc (h.c.)		JD Sacks – DEcon (h.c.)
	B Human – DCom (h.c.)	2002	BH Meyer – PhD (h.c.)	2016	RJ Khoza – DEcon (h.c.)
	SG Shuttleworth – DSc (h.c.)		BAK Rider – LLD (h.c.)		TA Manuel - DEcon (h.c.)
1982	BLS Franklin – DPhil (h.c.)		CF Slabber – PhD (h.c.)		M du Preez – PhD (h.c.)
	GvN Viljoen – DEd (h.c.)		JM Stetar – DEd (h.c.)		J Samoff - DPhil (h.c.)
1983	L Luyt – DCom (h.c.)	2003	EWA de Corte – DEd (h.c.)		F Haffajee - PhD (h.c.)
	SF Zaanman – DPhil (h.c.)		HA Serebro – DPhil (h.c.)	2017	PH Holloway - DSc (h.c.)
1984	HS Steyn - DSc (h.c.)		AG Sykes – DSc (h.c.)		M Botha - LLD (h.c.)
	FR Tomlinson – DScAgric (h.c.)	2004	S Badat – DPhil (h.c.)	2019	BL Fanaroff – DSc (h.c.)
	JH vd Berg – DMed (h.c.)		R Bringle – DPhil (h.c.)		J Mofokeng wa Makhetha – DLitt (h.c.)
1985	L Alberts - DSc (h.c.)		J de Wet – DMus (h.c.)		MB Molemela – LLD (h.c.)
	GG Cillié – DPhil (h.c.)		CF Fauconnier – DSc (h.c.)		
	SPD le Roux – DLitt (h.c.)		GJ Gerwel – DPhil (h.c.)		
	A Polson – DPhilMed (h.c.)		WD Jonker – DTh (h.c.)		

Shields of Honour, Council and Chancellor's Medals

1994	Prof FO Müller (Shield of Honour)	2003	Prof HC Janse van Rensburg (Council's Medal)
	RE Schoombie (Shield of Honour)		Prof SA Petersen (Shield of Honour)
1995	Prof FO Müller (Chancellor's Medal)	2008	Ludo Helsen (Shield of Honour)
	RE Schoombie (Chancellor's Medal)	2009	Prof JU Grobbelaar (Council's Medal)
1996	Prof S Mittman (Shield of Honour)	2010	Mrs AM Dippenaar (Chancellor's Medal)
1997	Prof M Jansens (Shield of Honour)	2014	Dr H Verster (Chancellor's Medal)
1998	Prof CJC Nel (Chancellor's Medal)	2014	Mr JL Pretorius (Chancellor's Medal)
	Prof C Swanepoel (Chancellor's Medal)	2016	Mr AD Osler (Chancellor's Medal)
1999	WJ (Hansie) Cronje (Shield of Honour)		Ms M van der Merwe (Chancellor's Medal)
	Prof David Justice (Shield of Honour)	2017	Ms JS Isaacs (Chancellor's Medal)
2000	Prof P Rosseel (Shield of Honour)	2019	Mr JF de Villiers (Chancellor's Medal)
	Prof MJ Viljoen (Chancellor's Medal)		Ms EM Oosthuizen (Council Medal)
2001	Prof PC Potgieter (Chancellor's Medal)		
2002	T Moss (Shield of Honour)		
	Prof CD Roode (Chancellor's Medal)		

MESSAGE FROM THE RECTOR AND VICE-CHANCELLOR

Dear Student

Congratulations to our newest alumni, the Class of 2019! Today is a memorable day and a culmination of the time you spent here at the University of the Free State (UFS).

You are not only becoming an alumnus of this great 116-year-old institution, but you are now also part of a fraternity of exceptional individuals who have graduated before you.

Our alumni include educators, health professionals, scientists, entrepreneurs, agriculturists, artists, humanitarians, legal professionals, clergy, sportsmen and women, etc., who contribute to the welfare and growth of so many people in our beautiful country and beyond.

Graduation is a time to recognise the completion of a study programme and to celebrate a beginning, the commencing of a new chapter in your life. It is a time to embrace new opportunities.

You have accomplished much, and you have even greater potential than when you started your studies at Kopsies. Your newly acquired education will serve you well throughout your life, and the friendships and memories you have made here are something I hope you will return to often.

This is a significant day for all of us who have been involved in the lives of our graduates. For us – and for your fellow students, friends, and loved ones, this is a time to celebrate and acknowledge your accomplishments, and to bless you with our confidence and hope as you embark on the next stage of your journey.

May you look back with a sense of pride, knowing that you possess the required knowledge and skills to build and succeed in your chosen career.

The UFS is, after all, a place that inspires excellence and transforms lives.

Best wishes

PROF FW PETERSEN

RECTOR AND VICE-CHANCELLOR | UNIVERSITY OF THE FREE STATE

Beste Student

Baie geluk aan ons nuutste alumni, die Klas van 2019! Vandag is 'n onvergeetlike dag en die hoogtepunt van die tyd wat jy hier aan die Universiteit van die Vrystaat (UV) deurgebring het.

Jy word nie net 'n alumnus van hierdie wonderlike 116-jaar-oue instelling nie, maar jy is nou ook deel van 'n gemeenskap van uitsonderlike individue wat voor jou gegradueer het.

Onder ons alumni is daar opvoeders, gesondheidswerkers, wetenskaplikes, entrepreneurs, landboukundiges, kunstenaars, filantropie, regslui, geestelikes, sportmanne en -vroue, ens., wat tot die welsyn en groei van so baie mense in ons pragtige land en verder bygedra het.

Gradeplegtigheid is 'n tyd om erkenning te gee aan die voltooiing van 'n studieprogram en om 'n nuwe begin te vier – die aanvang van 'n nuwe hoofstuk in jou lewe. Dit is 'n tyd om nuwe geleenthede aan te gryp.

Jy het baie bereik en jy het selfs groter potensiaal as toe jy met jou studies by Kopsies begin het. Jou nuut verworwe opvoeding sal jou goed te staan kom deur jou hele lewe, en die vriendskappe en herinneringe wat jy hier gemaak het, is iets waarna ek hoop jy gereeld sal terugkeer.

Dit is 'n belangrike dag vir ons almal wat in ons graduandi se lewens betrokke was. Vir ons – en vir jou medestudente, vriende en geliefdes, is dit 'n tyd om jou prestasies te erken en te vier en om jou te seën met ons hoop en vertroue terwyl jy die volgende stadium van jou reis begin.

Mag jy terugkyk met 'n gevoel van trots en met die wete dat jy oor die nodige kennis en vaardighede beskik om jou gekose loopbaan te bou en 'n sukses daarvan te maak.

Die UV is immers 'n plek wat uitnemendheid inspireer en lewens verander.

Beste wense

PROF FW PETERSEN

REKTOR EN VISEKANSLIER | UNIVERSITEIT VAN DIE VRYSTAAT



Moithuti ya Ratehang

Re a o lebohisa ho ba alumni ya rona e ntjha-ntjha, Tlase ya 2019! Kajeno ke letsatsi leo o tla le hopola le ho fihla sehlohlolong sa nako eo o e qetileng mona University of the Free State (UFS).

Ha se feela hore o ba Alumni ya Setheo sena se seholo sa Thuto, se qetileng dilemo tse 116, o bile o karoloya mokgatlo wa batho ba kgethehileng ba atlehileng pele ho wena.

Di-alumni tsa rona di kenyeletsa barupelli, diprofeshenale tsa bophelo, ditsebi tsa saense, borakgwebo, ditsebi tsa temo, batshwantshisi, basebeletsi ba setjhaba, diprofeshenale tsa molao, baruti, dibapadi tsa banna le tsa basadi, jj., ba tlatsatsang boiketlong le kgolong ya batho ba bang naheng ena ya rona e ntle le ka nqane ho meedi ya naha.

Graduation ke nako ya ho leboha sephetho sa lenaneo la thuto le ho keteka qalo, le tshimoloho ya kgaolo e ntjha bophelong ba lona. Ke nako ya ho tshwara ka diatla tse pedi menyella e metjha.

O fihleletse dintho tse ngata haholo, mme o na le tebello e kgolo haholwanyane ho feta ha o ne o qala dithuto tsa hao mona Kopsies. Thuto eo o sa tswa e fumana e tla o sebeletsa hantle bophelong bohle ba hao, mme maqhama a botswalle le mehopollo e metle eo o e entseng mona ke tse ding tsa dintho tseo ke tshelang hore o tla dula o di hopola.

Lena ke letsatsi la bohlokwa bakeng sa rona kaofela ba ileng ba ameha bophelo ba di-graduate tsa rona. Bakeng sa rona mona – le bakeng sa baithuti-mmoho le wena, metswalle, le baratuwa ba hao, ena ke nako ya ho keteka le ho leboha ka kamohelo diphilhello tsa hao, le ho o hlohonolofatsa ka tshepo ya rona jwalo ka ha o kena leetong la hao la mokgahlelo o latelang wa tsela ya hao.

E se e ka ha o hetla morao o ke ikutlwa o le motlotlo, o tseba hore o fumane tsebo le bokgoni bakeng sa ho hahla le ho atleha mosebetsing oo o kgethileng.

Sa bohlokwa ka ho fetisisa, UFS ke sebaka se susumetsang tshebetso e ipabolang le ho fetola bophelo.

Ke le lakaletsa dintho tse molemo ka ho fetisisa

PROF FW PETERSEN

RECTOR AND VICE-CHANCELLOR | UNIVERSITY OF THE FREE STATE

VISION

The University of the Free State is a research-led, student-centred and regionally-engaged university that contributes to development and social justice through the production of globally competitive graduates and knowledge.

MOTTO

IN VERITATE SAPIENTIAE LUX

(In Truth is the Light of Wisdom)

OFFICE BEARERS



CHANCELLOR
Prof B Mohale
Professor of Practice (JBS)



RECTOR AND
VICE-CHANCELLOR
Prof FW Petersen
PhD (SU)



CHAIR OF COUNCIL
Dr W Louw
PhD (SU)



VICE-RECTOR:
INSTITUTIONAL CHANGE,
STUDENT AFFAIRS
AND COMMUNITY
ENGAGEMENT
Prof P LenkaBula
PhD (UNISA)



VICE RECTOR:
OPERATIONS
Prof P Naidoo
PhD (VISTA)



VICE-RECTOR:
ACADEMIC
Dr EL van Staden
DPhil (UJ)



VICE-RECTOR:
RESEARCH
Prof RC Witthuhn
PhD (UFS)



REGISTRAR:
Mr NN Ntsababa
MPA (NMU)



CAMPUS PRINCIPAL:
SOUTH CAMPUS
Dr M Madioppe
DEd (Unisa)



CAMPUS PRINCIPAL:
QWAQWA
Dr M Mandew
PhD (UN)



PRESIDENT OF
CONVOCATION
Dr PD du Toit
PhD (UFS)



PRESIDENT: STUDENT
REPRESENTATIVE
COUNCIL
Mr MKB Lechoo



DEANS



DEAN:
ECONOMIC AND
MANAGEMENT SCIENCES

Prof HJ Kroukamp
DPhil (UPE)



DEAN:
EDUCATION

Prof LC Jita
PhD (MSU)



DEAN:
HEALTH SCIENCES

Prof GJ van Zyl
PhD (UFS)



DEAN:
THE HUMANITIES

Prof H Hudson
PhD (UFS)



DEAN:
LAW

Prof JC Mubangizi
LLD (UDW)



DEAN:
NATURAL AND
AGRICULTURAL SCIENCES

Prof PD Vermeulen
PhD (UFS)



DEAN:
THEOLOGY AND RELIGION

Prof RS Letšosa
PhD (PU/CHE)



DEAN: STUDENT AFFAIRS

Mr P Mgolombane
MA (WU)



QWAQWA SENIOR LEADERSHIP



CAMPUS PRINCIPAL

Dr M Mandew
PhD (UN)



CAMPUS VICE-PRINCIPAL:
SUPPORT SERVICES

Mr TI Manchu
MA (UFS)



CAMPUS VICE-PRINCIPAL:
ACADEMIC AND
RESEARCH

Prof MP Sithole
PhD (Cambridge)



ASSISTANT DEAN:
ECONOMIC AND
MANAGEMENT SCIENCES

Dr C Mudzingiri
PhD (UFS)



ASSISTANT DEAN:
EDUCATION

Dr CT Tsotetsi
PhD (UFS)



ASSISTANT DEAN:
THE HUMANITIES

Dr J McDonald
PhD (London)



ASSISTANT DEAN:
NATURAL AND
AGRICULTURAL SCIENCES

Prof A Le Roux
PhD (SU)

GUEST SPEAKER

PROF BONANG MOHALE

(Professor of Practice, JBS)



A Professor of Practice at the Johannesburg Business School's College of Business and Economics, and Chairman of the Bidvest Group Limited, Prof Mohale is a published author and respected business leader

who has held chairmanships and directorships at some of South Africa's top companies. He currently serves on the boards of Swiss Re Africa Limited, Rand Merchant Bank Limited (RMB), the Automobile Association of South Africa, and SBV.

Prof Mohale was former Chief Executive Officer of Business Leadership South Africa (BLSA). In 2001, he received the President's Award for his servanthood in South African industry, and in 2019 the Free Market Foundation's Luminary Award.

Prior to joining BLSA, Prof Mohale was the Chairman of Shell Downstream South Africa (Pty) Limited, and Vice-President of Shell Upstream.

He also served as Chairman of the Southern African Netherlands Chamber of Commerce, the Marketing Association of South Africa, the Institute of Marketing Management, and as Deputy Chairman of the national Heart Foundation. Prof Mohale also held directorships at the Airports Company South Africa, Sanlam, and the Tourism Business Council of South Africa, and was the Managing Director of Otis Elevators: Africa.

Prof Mohale is the author of the book, *Lift As You Rise*.

PLEASE NOTE

List of candidates receiving degrees, diplomas and certificates:

An * next to a name indicates that the degree, diploma or certificate is awarded with distinction.



DEAN |
PROF HJ KROUKAMP

ASSISTANT DEAN |
DR C MUDZINGIRI

BACHELOR'S DEGREES

BACHELOR OF ADMINISTRATION

BILA, Anele Luthando
DLAMINI, Malefa Crecentia
HADEBE, Samukelisiwe Charity
JELWANA, Lwando
LELOKA, Modiehi Grace
LIKHOJANE, Thabo Lehlohonolo
MABULA, Phelani
MABUSELA, Ramasela Lethabo Lydia
MALEKA, Matseleng Beauty
MATIMA, Paseka
MAZIBANE, Bongisiwe Faith
MBONGO, Sibusiso Kenneth
MNGUNI, Nqubeko Progress
MOFOKENG, Lehlonolo Vincent
MOFOKENG, Mmatjobe Veronica
MOKHATLA, Tshepiso
MOKONE, Thembisile Monica
MOLALOGI, Basetsanagape
MOLOPA, Mary Madithare
MOTLOUNG, Baba David
MOTLOUNG, Nomali Lerato
MOTSHEKU, Matshediso

MTHIMKULU, Puleng Precious
NDWANDWE, Ayisha
NGUBANE, Phelelani
NHLAPO, Themba Innocent
NTULI, Kwazikonke Njabulo Goodnough
POTLOANE, Matieho Alphoncina
RADEBE, Nontokozo Nomsa
RAMATELETSE, Lehlohonolo Godfrey
TSHABALALA, Itumeleng
TSOTETSI, Dineo Joyce*

BACHELOR OF COMMERCE IN GENERAL MANAGEMENT

CHAGWE, Gift Nkosinathi
CHONCO, Sinethemba Nokwanda
DHLAMINI, Mamello Latifah
HLOPHE, Nonjabulo Sphehile
KUBHEKA, Funwayo
MABASO, Bongani Elias
MAPHALALA, Sindiswa
MOFOKENG, Duduzile Liesbeth
MOKOENA, California Tebogo
MOKOENA, Puleng Portia
MOLOI, Phanana Phillip
MOLOJA, Madisele Lillian
MOSIA, Bopang
MUKWEVHO, Nthabiseng Irene
NGONYAMA, Siyabonga Sandile
NHLAPO, Nkosana
NHLAPO, Sibusiso Christopher
NTULI, Nolihle

OMOTAYO ASHAFI, Hajarat
Eniola Jennifer
PHUNGULA, Minenhle
RADEBE, Enock Tsietsi
RAPABI, Tebello Maria
THATENG, Boitumelo
TSHABALALA, Khethiwe Liesbeth
ZWANE, Ntandoyenkosi Mondy

BACHELOR OF COMMERCE WITH SPECIALISATION IN GENERAL MANAGEMENT

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MOFOKENG, Tlaleng Priscilla
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MCHUNU, Thembelihle Lucia
MDAKANE, Zinhle Lindiwe
MKHIZE, Sphamandla Gift
Siyamdumisa
MTHETHWA, Nkosinathi Sphelele
MVELASE, Nkosisiphile
Mbongiseni
MZOLO, Mini-Enhle Penelope
NGIBA, Neliswa Penelope
NKHAMBULE, Tihlohelohelo
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RADEBE, Makautu Edwin
RADEBE, Mpho
SIBISI, Sibongakonke Nkosinathi
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GAMBU, Mthobisi

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HLONGWANE, Lungisani
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MADUNA, Ayonda Prosperity
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MAPHALALA, Sizwe Joseph
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NGWENYA, Sinenhlanhla
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NJUZA, Mshebi
NTSELE, Nokuphiwa Zinhle
NZIMANDE, Enosancia
Morongwenyane
PHIRI, Teboho
RADEBE, Bongiwe
RADEBE, Neo Enoch
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Velemandleni
SHEZI, Gcinekile Esther
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SKHONDE, Dumsane Thulebona
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LEKHETHO, Keabetswe Penelope
LEOTLELA, Lebohang Bargio
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LOKO, Sizakele Wendy
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LUVUNO, Qedile Angel
LUVUNO, Thokozani Gift
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MABASO, Mthokozisi Balibongwe
MABASO, Thobile Nokubongwa
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MARUMO, Pule Desmond
MASOEU, Thandi Portia
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MAVIMBELA, Ayanda
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MAZIBUKO, Gcinani Nowel
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MAZIBUKO, Londeka Sindiswa
MAZIBUKO, Mthobisi Ayanda
MAZIBUKO, Nontokozo Fortunate
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MOHALE, Makgaula Julia
MOHLAHATSA, Puseletso Jeanett
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MOKHEHLE, Ntai David
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MOTLOUNG, Khanyisile Promise
MOTLOUNG, Mathapelo Gremah
MOTLOUNG, Retshedisitswe
MOTLOUNG, Sello Joseph
MPHUTHI, Teboho Rubele
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NHLAPO, Jabulile Innocentia
NJOKO, Zamansele Pearl
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NKALA, Ntombifuthi Rebecca
NKOSI, Lindokuhle Faizel
NKOSI, Sthembile Precious
NQUBUKA, Nkululeko Freedom
NTHOLENG, Mahadi Promise
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NTSHANGASE, Philisiwe Nomusa
NTUMBA, Nozipho

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RADEBE, Sprinkane Tholane
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SITHOLE, Nonhlanhla Fortunate
SITHOLE, Thubelihle Zamokuhle
SITHOLE, Xolane Foreman
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THABEDE, Thobeka Nomfundo



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ZONDO, Nompilo
ZONDO, Philisiwe Precious
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NGUBONE, Lindokuhle Siyanda
NXUMALO, Sinethemba Anele Bridget
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POSTGRADUATE DIPLOMA IN LIFE AND COUNSELLING SKILLS

KOAO, Relebohile Precious
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POSTGRADUATE DIPLOMA IN SCHOOL LEADERSHIP AND MANAGEMENT

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MHLONGO, Khulani
MOFOKENG, Rannoi Rooderick
MOKOENA, Mkhulu David
MOKOENA, Nthoto Priscilla
MOKOENA, Thembisile Lina
MOKOENA, Tshinini William
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MOLEFE, Nomfundo Goodrequest
NALE, Motshedisi Image
NTULI, Nhlanhla
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TSOTETSI, Ntebaleng Patricia
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MASTER'S DEGREES

MASTER OF EDUCATION WITH SPECIALISATION IN CURRICULUM STUDIES

MLAMBO, Masentle Adelinah

Dissertation Title: A STRATEGY
TO ENHANCE THE TEACHING
AND LEARNING OF ALGEBRAIC
FUNCTIONS IN GRADE 10
MATHEMATICS

Supervisor: Dr TJ Moloi

Co-supervisor: Mr ME Dlamini

MOLOI, Tshepang Jacob

Dissertation Title: USING
FICTIONAL STORIES AS A
LEARNING STRATEGY TO
ENHANCE THE READING
COMPREHENSION OF FIRST-
YEAR UNIVERSITY STUDENTS

Supervisor: Dr MV Mathobela

Co-supervisor: Dr CT Tsotetsi

MOTSOENENG, Thabiso Jonah

Dissertation Title: ENHANCING
TEACHING AND LEARNING OF
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WEB-BASED COLLABORATIVE
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Supervisor: Dr HJ Nichols



DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN EDUCATION MANAGEMENT AND LEADERSHIP

OMODAN, Bunmi Isaiah

Bunmi Isaiah Omodan was born on 21 August 1985 in Ipoti-Ekiti, Nigeria. He Matriculated in Ipoti High School in 2002 with excellent performance in West African Examination Council. He proceeded to University of Ado-Ekiti, now Ekiti State University, where he obtained B.A.Ed in English Language and M.Ed in Educational Management in 2011 and 2016 respectively. He started his career as a teacher in 2011 and currently an ad-hoc lecturer in UFS. He has published 16 peer-review articles in both local and international platforms.

With his thesis, **A STRATEGY TO ENHANCE CRISIS MANAGEMENT BETWEEN STUDENTS AND UNIVERSITY AUTHORITIES IN NIGERIA**, the candidate contributes to scholarship on crisis management in the university system, focusing on how to formulate a strategy to decolonize power differentials between students and university authorities for peace and relative tranquility. Omodan adopted transformative paradigm, lensing through the Human Relation Theory of Management and Decoloniality theory. He used Participatory Action Research design to engage ten critical stakeholders to provide collective solutions to the dichotomies between students and university authorities. The study revealed that lack of modern communication, weak dialogue mechanism, students' non-involvement in decision making, cultism, external and political interference, inadequate and mismanagement of funds were major propellers of students-management dichotomies in the university system. The study designed a mobile/electronic application as a strategy to reconstruct the old ways of managing students in the university system.

Promoter: Dr B Dube

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DHLAMINI, Nonhlanhla
DINDI, Thandeka Nkazimulo Nkosiya
DLAMINI, Buhlebemvelo Marcia
DLAMINI, Gcinile
DLAMINI, Ntombizethu
DLAMINI, Pearl Thembeka Sphehile
DLAMINI, Sanelisiwe Khethiwe
DUBAZANE, Lulama
DUMA, Lungisile Nomali
DUMA, Sithokozile Ignatia
DUMA, Siyamdumisa Nkosingiphile
FUNANE, Mamphoso Paulina
GUMEDE, Samukelo Sbhongiseni
HADEBE, Nomfundo Given
HADEBE, Senzosenkosi Thobelani
HLATSHWAYO, Busisiwe Bongiwe

HLATSHWAYO, Happiness Sinenhlanhla
HLATSHWAYO, Hloniphile Pretty
HLATSHWAYO, Noxolo Pretty
HLATSHWAYO, Siboniso Lunga
HLATSHWAYO, Sicelo
HLATSHWAYO, Vuyile Pearl
HLONGWANE, Andile
HLONGWANE, Lungelo Patience
HLONGWANE, Siphisiwe
HLUBI, Nompumelelo Joyce
HOWARD, Ingrid Bernice
KHANYE, Themba Charles
KHANYILE, Thobani
KHITHIKO, Sanele Wandile
KHOZA, Babongile Pretty
KHOZA, Nokuthaba Zinhle Charlotte
KHUMALO, Thandeka Bonisiwe
KHUMALO, Busiswa Nokuthula Angel
KHUMALO, Celimpilo Prudence
KHUMALO, Lindokuhle Nkazimulo
KHUMALO, Nozipho Zinhle
KHUMALO, Sambulo Sifiso
KHUMALO, Sinenhlanhla
KHUMALO, Siphelile Mbuyiseni
KHUZWAYO, Bongisiwe
KHUZWAYO, Khethukuthula
KOKONG, Mamotsosi Princess
KOLOI, Ndlakanepho Godfrey
KOMZWAYO, Nontobeko Felicity
KUBHEKA, Patricia Ntomfuthi
KUMALO, Bongani Isaac

KUMALO, Mandla
LEBOTO, Katleho Aaron
LEPOTA, Maelisa Maureen
LINDA, Bongekile
LUBEDE, Samukelisiwe Faithfull
MABASO, Nonthando
MABASO, Sindiswa Zothini
MABASO, Thobeka Mandisa
MABUYA, Nontetheliso Pretty
MACHITJE, Mmapiti Annah
MADONDA, Simangele
MADONDO, Lerato Noluthando
MADONSELA, Thembi Grace
MADUNA, Nelesiwe Caroline
MAFANE, Mpho Brigitte
MAFEREKA, Matshediso Gladys
MAGAQA, Tina Thando*
MAHLABA, Mpho Priscilla
MAHLABA, Zanele Patience
MAJOLA, Khuleka Zandile
MAJORO, Tumi Joyce
MAKHATHINI, Njabulo Nhlanhla Banele
MAKUPANE, Relebohile
MALEKA, Zanele Maria
MALINGA, Nelisiwe
MANANA, Nokwanda Angel
MANATHA, Zamacoka Senamile
MANQELE, Thandanani Farehope
MANYARELA, Nthabiseng Tshireletso
MAPHANGA, Khulekani
MASEKO, Dimpho Surprise
MASHININI, Priscilla Mpolokeng



MASITENG, Palesa Rebecca
MASUKU, Nosipho
MATHONSI, Sinethemba Hopewell
MATLATSI, Mamosengoane Cynthia
MATLI, Maletsatsi Ernestina
MAZIBUKO, Anele
MAZIBUKO, Kwanele Zamangwe
MAZIBUKO, Mashiyamahle
MAZIBUKO, Mawande Goodness
MAZIBUKO, Nkosingiphile Thabile
MAZIBUKO, Qinisela Cyril
MAZIBUKO, Vuyisile Patronella
MBAMBO, Siyabonga Mpumelelo
MBATHA, Celimpilo God'Slove
MBATHA, Nkosinathi Kwanda
MBATHA, Sabelo Austin
MBATHA, Samukelisiwe Nontokozi
MBATHA, Sthembiso Zipho
MBELE, Sinethemba Sweetness
MBHELE, Thobeka Angel
MBONGWA, Ntobeko Siphesihle
MBONGWE, Senamile Nadia
MBULI, Thembaletu Cornie
MCHUNU, Nontobeko Nosipho Patience
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MDLALOSE, Noxolo Sifundo
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MDLULI, Andiswa Nomthandazo
MDLULI, Lucky Bonginkosi
MDUBA, Samkelisiwe Mornica
MDULI, Lindokuhle

MEMELA, Ntombenhle Tracy
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MHLONGO, Mhlengi Thamsanqa
MHLONGO, Nokulunga Busisiwe
MHLONGO, Thamsanqa Benedict
MHLUNGU, Muziwandile Percival
MIYA, Andisiwe Bongekile
MKHASIBE, Mlungisi Mahiliza
MKHIZE, Amkele Siyathokoza Brian
MKHIZE, Nosipho Sabeliso
MKHONZA, Sanele Warren
MLABA, Thabo S'Busiso
MLAMBO, Sithabiso
MLANGENI, Palesa Patricia
MLOTSHWA, Samukelisiwe Thandeka
MMUSO, Lekhema Mmuso
MNCUBE, Zoleka Nondumiso Perceverence
MNGADI, Lethukukhanya
MNGADI, Nompumelelo Princess
MNGOMEZULU, Siyabonga Fortune
MOFOKENG, Dineo
MOFOKENG, Ditheoane Cecilia
MOFOKENG, Maki Valencia
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MOFOKENG, Refiloe
MOFOKENG, Thabiso
MOHALE, Hlaefang
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MOKHOTHU, Mosa Hendrina
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MOKOENA, Fusi Faith
MOKOENA, Nthabeleng
MOKOENA, Ntombani Portia
MOKOENA, Pontsho Paulina
MOKOENA, Relebohile Salmina
MOKOENA, Sibongile Gladys
MOLEFE, Masekonyela Evelyn
MOLELLE, Ester
MOLOI, Lerato Hope
MOLOI, Malefu Eunice
MOLOI, Mamello Caroline
MONTWEDI, Suprise Kabelo
MOPELI, Keneuwe
MOSALA, Rethabile
MOSELANE, Relebohile Maipato
MOSIA, Jermina
MOSIKILI, Malefu Jeanett
MOSIKILI, Thapelo Junior
MOTAKANE, Zanele
MOTAUNG, Lebohang Constance
MOTAUNG, Lerato
MOTAUNG, Madiapeng
MOTUBANE, Thembisile Immaculate
MPANZA, Halalisani Portia
MPHUTHI, Dineo Jacoline
MPONTSHANE, Vuyiswa Amanda
MSIBI, Gcinile



MSIBI, Kwenzakwenkosi Valentine
MSIMANGO, Amanda
MTHALANE, Banele Wiseman
MTHEMBU, Bongokuhle
Nkosinathi
MTHEMBU, Nelisiwe Priscilla
MTHEMBU, Nonkululeko
Yandiswa
MTHEMBU, Thobani Gift
MTHETHWA, Lethukuthula
MTHETHWA, Lungile Luyanda
MTHETHWA, Nonkululeko
Emmaculate
MTHOMBENI, Nombulelo
Norantia
MTSHALI, Nokuzola Mandisa
MTSHALI, Xolani
MVELASE, Mdumiseni
Ngangezwe
MVELASE, Nondumiso
Samkelisiwe
MXUMALO, Nonsikelelo
MZOLO, Busani Thubelihle
NDABA, Nokwanda Amanda
NDABA, Simphiwe Noxolo
NDAWO, Londeka Andisa
NDLANGAMANDLA, Vuyelwa
Gladness
NDLOVU, Ndabenhle Wandile
NDLOVU, Sindisiwe Sheila
NGCOBO, Khethukuthula David
NGCOBO, Lindokuhle Sibusiso
NGEMA, Zama Nicole
NGWENYA, Thandeka Wendy
NHLAPO, Malefu Feikie
NKHABLE, Rethabisitsoe
Rethabile

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NONDABULA, Mduduzi Thomas
NTINI, Mncedisi
NTSELE, Halalisiwe Nokuthula
NXASANA, Nduduzo Gibson
NXONGO, Ntombizethu Precious
NXUMALO, Nonjabulo Celiwe
NXUMALO, Nontsikelelo
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RAMOHLOKI, Nomsa Mary
RAMOSHEBI, Mamafale
Constance
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SELEPE, Reabetswe Nelson
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Simlindile Pretty
SHABANGU, Nonkululeko
SHANGE, Amanda Nokuthaba
SHANGE, Nontobeko
SHEZI, Thembiswa Priscilla
SIBEKO, Dimakatso
SIBISI, Siphasethu Wandile
Lethiwe

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SIBIYA, Noxolo Londeka
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SIKHOSANA, Siphелеle Pertunia
SIMELANE, Nokwethemba
Sineziwe
SINGENI, Nomkhitha Shanitha
SITHEBE, S'Phesihle Sizanokuhle
SITHEBE, Snethemba
SITHOLE, Mduduzi Sydwel
SITHOLE, Nonhlanzeko
Thembaletu
SITHOLE, Sinazo Minenhle
SKOSANA, Nana Rebecca
SNAIL, Nombulelo
TEBELE, Nombuso
THABETHE, Nonjabulo Thabisile
THWALA, Busisiwe
THWALA, Phinda Thembelani
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TSHABALALA, Noxola Thobeka
TSHABALALA, Ntokozo Derick
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TSOSANE, Ashley Bokang
VILAKAZI, Mthokozisi Praise-God
VILAKAZI, Noliqhwa Priscilla
VILAKAZI, Siphesihle Sibusiso
XABA, Aphiwayinkosi Tholly
XULU, Christopher Sefiso
XULU, Siyethemba
XULU, Thobeka Siphesihle
ZIKALALA, Aphiwe
ZULU, Londiwe Nosipho
ZULU, Nombulelo Nokwazi



ZULU, Snethezelo

ZULU, Thokozani Kwazikwenkosi

ZUMA, Khangiwe Sweetness

ZUMA, Thobeka

ZUNGU, Themba Wiseman

ZWANE, Londeka Zamokuhle

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ZWANE, Samukelisiwe

ZWANE, Sinqobile Valentia

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MOLOI, Itumeleng

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MOOPI, Peter

NARE, Motsusi Sylvester

BACHELOR OF ARTS HONOURS WITH SPECIALISATION IN GEOGRAPHY

SHEZI, Ntombizodumo



DEAN |
PROF PD VERMEULEN

ASSISTANT DEAN |
PROF A LE ROUX

BACHELOR'S DEGREES

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INFORMATION TECHNOLOGY
MAJORING IN COMPUTER
SCIENCE AND CHEMISTRY**

KHUMALO, Thobeka
MOLOI, Mamosa Gladys
RAMOTSILISI, Lebohang Gladys

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SCIENCE AND MANAGEMENT**

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Ramohau Martha
HLOAELE, Nkeletseng
KHAMPEPE, Sebolelo Josephine
MASOKA, Thato Rebecca
MBELE, Mamoqebelo Violet
MOKOENA, Saule
MOLEFE, Mlamuli Emmanuel
MTSHALE, Johan Sthembiso
NGOVE, Paulo Simon
NGQELENI, Nozuko
TSHABALALA, Queen
ZONDO, Gomolemo Zinhle

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INFORMATION TECHNOLOGY
MAJORING IN INFORMATION
TECHNOLOGY AND
MANAGEMENT**

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MBULAWA, Thabiso
MOHLAPHODI, Moeketsi
Octavious
MOTSOENENG, Thabang
Hendrick
ZULU, Thanduxolo After

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MAJORING IN BOTANY AND
LIFE SCIENCE**

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MABASO, Jabulani
Thembalamantungwa
MDAKANE, Lindokuhle
Immaculate
MDLADLA, Menzi
SAWADOGO, Ebrahim
THWALA, Hlengiwe
ZONDO, Sindiswa Ngishongishilo

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BOTANY**

BUTHELEZI, Thulile*
DLUNGWANE, Andile Precious
HLAKOTSA, Ntumeleng Malefa
Mamokoakoa Selinah
KHESWA, Thabiso Praise-God
KOALIPE, Reitumetse*

KUNENE, Ndumiso Fortune
LETAOANA, Tshepiso Makalane
MASOLE, Patricia
MDAKANE, Khululiwe Yenziwe
MOKOENA, Dieketseng Jenet
MOLEKO, Ngwetsana Joyce
MTHEMBU, Celiwe Khanyisile
NALA, Zimele
NDWANDWE, Bongeka
Lethukukhanya*
NTJE, Lerato Anna*
SHABALALA, Sizakele Ennet
XABA, Singobile Sihle
ZWANE, Halalisani Prosperity

**BACHELOR OF SCIENCE
MAJORING IN CHEMISTRY AND
PHYSICS**

CHAGWE, Nhlanhla Macdonold
DLAMINI, Sizwe
HLATSHWAYO, Mvikeli Victor
JASE, Thabo Sylvester
MKHWANAZI, Lerato Joyce
MOKOENA, Mosidi
MOKOENA, Nthabiseng
Rosemary
MOKWENA, Tankiso Ernest
MOTLOUNG, Katileho Praisegod*
NTSHALINTSHALI, Delicacy
NTULI, Qiniso
PHOKOJOE, Rethabile Andries
SIBEKO, Petrus
TJOTJIE, Tshokolo Patrick
ZENGELE, Tshepang Given



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DLAMINI, Thobani
DONDA, Nokubonga Conque
FAKO, Mamakhooa Egnés
GWAMANDA, Mesuli Mlamuli
KUNENE, Minenhle Siphelile
MHLUNGU, Nokubonga Nosipho
MOKOENA, Lehlohonolo Isaac
MOTLOHI, Nkadimo Veronica
MSIMANGA, Gloria Malefu
NGQULUNGA, Thembeka Andiswa
NYEMBE, Siphon Kenneth
TSHABALALA, Thokozani Gcinumuzi
TSHABALALA, Tshepang Sean

BACHELOR OF SCIENCE MAJORING IN GEOGRAPHY AND LIFE SCIENCES

DLAMINI, Sphindile Thabile
MAMPA, Joana Maletsatsi

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RADEBE, Nomathemba Goodness
VERE, Nompilo Lerato
ZWANE, Phumla

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NTOMBELA, Njabulo Branden
SHABALALA, Lerato Maria

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MOKOENA, Malefu
MOLOI, Lerato
NDLOVU, Spongiseni

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MAPURU, Morena John
MNCUBE, Zandile
MOKOENA, Naledi Calvin
NDLOVU, Xoliswa Bridget
SIKHOSANA, Kholeka Thembeka
THOABALA, Refilwe Monicca
ZUMA, Xolile

BACHELOR OF SCIENCE HONOURS MAJORING IN PHYSICS

MCHUNU, Ntobeko Frederick
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MOTSEI, Tebogo
RAMOLAHLOANE, Hope Thabo

BACHELOR OF SCIENCE HONOURS MAJORING IN POLYMER SCIENCE

GAWE, Sokhana Yoliswa
KHUMALO, Londiwe Sandile

LEKENA, Nkhahleng
LEKESI, Lehlohonolo Petrus
LEOTLELA, Richard Maroyi
MADONSELA, Richard Xolani
MOTSWENYANE, Bongiwe
NYAWO, Siphon Alfred
TSOTETSI, Nkululeko Kamohelo

BACHELOR OF SCIENCE HONOURS MAJORING IN ZOOLOGY

MOSIKIDI, Toka
MZIZI, Sindiswa
VAN WYK, Maria

MASTER'S DEGREES

MASTER OF SCIENCE MAJORING IN ENVIRONMENTAL GEOGRAPHY

MAZIBUKO, Sabelo Marvin

Dissertation Title: ASSESSING DROUGHTS AND FLOODS USING REMOTE SENSING AND GIS IN THE LUVUVHU RIVER CATCHMENT, SOUTH AFRICA

Supervisor: Prof G Mukwada

Co-supervisor: Dr ME Moeletsi

MSIMANGA, Lokuthula

Dissertation Title: THE IMPACT OF CLIMATE CHANGE ON



SMALL-SCALE DAIRY FARMING
IN THE FREE STATE REGION OF
SOUTH AFRICA

Supervisor: Prof G Mukwada

**MASTER OF SCIENCE
MAJORING IN PHYSICS**

MUTHEE, Dorah Kawira*

Dissertation Title: SYNTHESIS
AND CHARACTERIZATION
OF TITANIUM DIOXIDE
NANOPARTICLES FOR WATER
PURIFICATION

Supervisor: Prof FB Dejene

Co-supervisor: Prof MO Onani

**MASTER OF SCIENCE
MAJORING IN ZOOLOGY**

MKOTYWA, Matseliso Agnes

Dissertation Title: THE IMPACT
OF VULTURE RESTAURANTS
ON SCAVENGER DYNAMICS
IN GOLDEN GATE HIGHLANDS
NATIONAL PARK, SOUTH
AFRICA

Supervisor: Prof A Le Roux

Co-supervisor: Mrs M Van As

MOLOI, Mbuyiselwa Shadrack

Dissertation Title: THE
ECOLOGICAL IMPACT OF
WASTEWATER POLLUTION
ON THE MALUTI-A-PHOFUNG
RIVER SYSTEMS

Supervisor: Dr O Ogbeide

Co-supervisor: Dr PV Otomo

MOSOLLOANE, Portia
Mamosebetsi*

Dissertation Title: RAPID
DETECTION OF ESCHERICHIA
COLI IN TREATED AND

UNTREATED WASTEWATER
AND THE IMPACT OF
WASTEWATER ON RIPARIAN
MACROINVERTEBRATE
ASSEMBLAGES

Supervisor: Dr PV Otomo

Co-supervisor: Dr E Bredenhand

SEMASE, Matseleng Pregent

Dissertation Title:
ECOTOXICOLOGICAL EFFECT
OF TREATED AND UNTREATED
WASTEWATER ON THE
CYCLE OF HELIX POMATIA
(PULMONATA) EXPOSED IN
ARTIFICIAL SOIL

Supervisor: Dr O Ogbeide

Co-supervisor: Dr PV Otomo

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY MAJORING IN ENVIRONMENTAL GEOGRAPHY

ADAGBASA, Efosa Gbenga

Efosa Gbenga Adagbasa was born in Benin City, Edo State, Nigeria. He finished from Lydia Secondary School in 1997. He attained a certificate in Computer Engineering, Networking, and Maintenance from Cytech Systems, in 1998. He graduated with a B.Sc. in Geography and Regional Planning from Ambrose Alli University in 2005, and two M.Sc. at the University of Ibadan in 2010, and 2012 respectively. He trained as a Project Manager for the International Charter, Space, and Major Disasters in 2013. He achieved a certificate in Climate change impacts from Watson Institute for International and Public Affairs, Brown University, U.S.A. in 2016.



With his thesis titled, **MODELLING ECOLOGICAL VULNERABILITY TO FIRE IN A MOUNTAINOUS AND PROTECTED AREA: A REMOTE SENSING AND GIS APPROACH**, the candidate presents a contribution to the current knowledge of ecological vulnerability modelling from fire in a mountainous region in South Africa, focusing on issues of how fire impacts the mountainous ecosystems through the understanding of vegetation recovery and soil erosion susceptibility. The study used fire severity, frequency and magnitude datasets derived from multi-temporal satellite images. Also, the study used advanced remote sensing and GIS techniques, Deep learning, and Machine Learning to evaluate the consequence of continuous fires on natural landscapes, identify the implication of fire severity on vegetation recovery, determine the spatial extents of resilient species and model the ecological vulnerability. Generally, the study established that remotely sensed data with GIS can be used to successfully comprehend the effects of mountainous fire regimes on natural ecosystems.

Promoter: Dr SA Adelabu

Co-Promoter: Dr TW Okello

OKELLO, Nick Omondi

Nick Omondi Okello graduated in Sept 2008 with an MSc degree in Environmental Science from the UNESCO-IHE, Delft, The Netherlands. He holds a BSc Honours degree in General Science from Moi University, Kenya. He is a registered Lead Environmental Assessment Expert in Kenya and a certified Professional Natural Scientist affiliated to the South African Council for Natural Scientific Professionals (SACNASP). He has 11 years international environmental management experience on water, air quality, waste, rehabilitation, and energy from Kenya, Ethiopia, The Netherlands, Sierra Leone, and South Africa. He is currently an Environmental Manager at Base Titanium Mine in Kenya.

With his thesis, **SUSTAINABLE CITIES: A CASE OF RICHARDS'S BAY AIR QUALITY STATUS, TRENDS OF KEY POLLUTANTS, ASSOCIATED HEALTH RISKS AND POLICY RESPONSE EFFECTIVENESS**, the candidate assessed the effectiveness of policy intervention in reducing air pollution emissions and thereby reducing health impacts. The research evaluated the spatial and temporal concentration trends of PM_{10} and SO_2 between 1997 and 2017 and the mortalities associated with air pollution, to determine significant changes due to the introduction of minimum emission standards (MES) and national ambient air quality standards (NAAQS) in South Africa. The results indicated a downward but not statistically significant trend in the ambient concentrations of PM_{10} and SO_2 . Moreover, a 24% decrease was observed in the Years of Life Lost post policy intervention indicating that policy intervention works but improvements can be made in data management, incentives, offset system, alternative green transport and better public involvement.

Promoter: Dr TW Okello

Co-Promoter: Dr M Zunckel

DOCTOR OF PHILOSOPHY MAJORING IN PHYSICS

HABTE, Abebe Getachew

Mr Abebe G. Habte was born in Ethiopia Arsi region on April 1971. He received his secondary education in Oromiya region where he matriculated at Ticho secondary high school in 1988. He obtained the Bachelor of science degree in physics in 1992 and Master's of science degree in Physics in 2007 both from Addis Ababa University, Ethiopia. He started his career as a physics teacher began in 1994. At present he is a physics lecturer at Hawassa university, Ethiopia.



With his thesis, **CHARACTERIZATION OF UNDOPED AND DOPED TIN DIOXIDE NANOSTRUCTURE AND CHEMICALLY DEPOSITED CADMIUM SELENIDE THIN FILM**, the candidate contributes to scholarship on synthesis and characterization of undoped and doped tin dioxide nanostructure and chemically deposited cadmium selenide thin film focusing on tuning of the properties of these materials by varying synthesis methods and conditions. The effect of different factors such as solution PH, complexing agent, dopant material, heat treatment, cationic concentration and type of solvent effect on the structural, optical and morphological are investigated in detail. The final product was analyzed using such techniques as scanning electron microscopy (SEM), photoluminescence (PL) spectroscopy, Ultra-violet visible (UV-Vis) spectroscopy, Energy Dispersive X-ray (EDX), Transmission electron microscope (TEM), and X-ray diffraction (XRD).

Promoter: Prof FB Dejene

Co-Promoter: Dr FG Hone

HILE, Donald Dehiin

Donald Dehlin Hile was born in Mbarumun, Adikpo Kwande Local Government Area of Benue State, Nigeria on 3 April 1977. He received his secondary education at St Andrew's Secondary Scholl, Adikpo, in 1996, where he was matriculated at the Benue State University, Makurdi, Nigeria in 1997. He obtained the degree of Bachelor of Science Hnours in Physics in 2001, Master of Science in Physics majoring in Solar Energy at the University of Nigeria, Nsukka in 2007. He stated his career as a lecturer in Physics at the College of Education Katsina-Ala in Benue State in 2004 and at present is a Physics lecturer at the University of Agriculture Makurdi.

With his thesis, **SYNTHESIS, GROWTH AND CHARACTERIZATION OF ZINC SELENIDE NANOSTRUCTURED THIN FILMS FOR APPLICATIONS IN LIGHT EMITTING MATERIALS**, the structural, morphological, optical and luminescence properties of zinc selenide (ZnSe) thin films semiconductors are systematical investigated for possible application in light emitting materials. The chalcogenide ZnSe semiconductors were deposited by chemical bath deposition and modified chemical bath deposition techniques for quality and reproducible thin films. Comparison was drawn on the effect of the deposition method on the structural, morphological and optical properties of the ZnSe. Other effects investigated were complexing agent volume, deposition and annealing temperatures on the properties of the nanostructured thin films. The results of his study were published in five (5) different Elsevier Journals accredited by the Department of Higher Education and Training.

Promoter: Dr LF Koao

Co-Promoters: Prof HC Swart and Prof SV Motloun

HUSSEN, Megersa Kasim

He was born on June 1978 in the city of Micheta which is found in west Hererghe, Ethiopia. He received his secondary education in Gelemeso where he matriculated at the Gelemso secondary school in 1997. He graduated with BED degree from Dilla University in 2001 and MSc at Addis Ababa University in 2005. I started my career as teacher in city of Garamuleta in 2002. He has got the chance to be employed in Arbaminch University and Dire Dawa university. During his time of employment in Dire Dawa University beside lecturing work he worked as physics department head, Coordinator of continuing and distance education and administration and development vice-president.



With his thesis, **SYNTHESIS AND CHARACTERISATION OF UN DOPED AND Cr³⁺ DOPED ZnM₂O₄(M=Ga or Al) SPINELS NANO STRUCTURES BY SOL-GEL METHOD FOR BIO IMAGING APPLICATIONS**. He makes a contribution to the new body of knowledge in the research by development of Cr³⁺ DOPED ZnM₂O₄(M=Ga or Al) spinels phosphor which is suitable for bio imaging application by sol gel techniques. With this contribution, he attempts to investigate *the effect of Cr³⁺ and In³⁺ ions doping, citric acid molar ratio, annealing temperature and pH on general properties of Cr³⁺ doped ZnM₂O₄ (M= Ga or Al) nanopowders*. The results of study on ZnGa₂O₄: Cr³⁺ serve as an indication that, the photoluminescence lifetimes of order of mill second(ms), particle size in nano range and emission spectra in NIR/ Red region obtained by sol gel showed improvement as compared to other synthesizing techniques for using prepared nanostructure for bio imaging applications.

Promoter: Prof FB Dejene

Co-Promoter: Prof MO Onani

KIPROTICH, Sharon

Sharon Kiprotich was born on 8 August 1988 in Kabarnet, Baringo, Kenya. She received her secondary education in Kabarnet, where she matriculated at SACHO HIGH SCHOOL in 2005. She obtained her BEd Science degree at Kenyatta University, Kenya in 2011. She later graduated her BSc Hons (Physics) in 2015 and MSc (Physics) degree with distinction in 2017 both at University of the Free State, SA. Her teaching career as a teacher started at Isiolo, Kenya in 2012. In 2014 she was appointed in the Physics Department, UFS as research assistant and a tutor which she holds up to date.

With her thesis, **GROWTH AND CHARACTERIZATION OF TUNABLE CdTe AND CdSe NANOPARTICLES BY FACILE SYNTHETIC ROUTE FOR USE IN BIOLOGICAL APPLICATIONS**, the candidate makes a contribution to the current nanotechnology. With this contribution, she attempts to find ways of producing quantum dots which can be used inside the human body. The quantum dots are excited into emitting light which is turned into a detailed image of tissues which can easily be analysed outside the human body. The growth process of these nanoparticles was carefully controlled for production of high quality dots with quantum confinement features for possible biological applications; by varying various reaction parameters such as precursor pH, capping ligand ratio to cadmium, concentration of the precursor molar ratios, different cadmium sources, reaction time, and passivation of the surfaces of the NPs with capping ligands. The results serve as an attempt to find a solution to aid the detection of cancer cells and other ailments in the human body.

Promoter: Prof FB Dejene

Co-Promoter: Prof MO Onani

KORIR, Peter Cheruiyot

Peter Cheruiyot Korir was born on 18 November 1979 in Kericho of the Rift Valley region, Kenya. He received his secondary education in Nakuru county, Kenya, where he matriculated at Kirobon high school in 1997 and later joined Moi University, Kenya for his undergraduate studies. He graduated with a Bachelor of Science (B.Sc) degree (First class honors) of Moi university, Kenya in 2004 and a master of philosophy in Physics at Moi University in 2010. His career as a graduate assistant began in 2007 at Moi University, and later as an assistant Lecturer at the University of Eldoret, Kenya from 2014 till date.



With his thesis, **STRUCTURAL AND LUMINESCENCE PROPERTIES OF PULSED LASER DEPOSITED RE-DOPED YTTRIUM ALUMINATE THIN PHOSPHOR FILMS FOR LEDS APPLICATIONS**, the candidate contributes to scholarly knowledge on the synthesis and characterization of rare earth doped phosphors, in particular focusing on how thin film deposition techniques are used to prepare phosphor materials for different applications. Using the PLD method, Korir deposited various thin film samples using the PLD system at the physics department, University of the Free State, to understand and explain the role of the laser and deposition parameters in determining the properties of phosphors for lighting and display applications. Both the laser and deposition parameters were observed to be correlated and collectively determines the crystallization and structural formation of the phosphor materials under study. The study thus presents that the laser and deposition parameters indeed affected the material properties and are critical in obtaining high quality phosphor films for device fabrication.

Promoter: Prof FB Dejene

Co-Promoter: Dr RO Ocaya

SEID, Edris Taju

Endris Taju Seid was born on 09 January 1984 in wollo, Ethiopia. He matriculated at Weldia higher education preparatory and secondary school in 2005 and later attained a B.Sc degree in Applied physics with a distinction at University of Gondar in 2008. He graduated his M.Sc degree in physics (Laser spectroscopy) with excellent thesis at Addis Ababa University in 2012. His career began in 2009 with a rank of graduate assistant in Dire Dawa University and he rose through the ranks to become a lecturer with a prize of a role model faculty award.

With his thesis, **GENERATION OF NOVEL UNDOPE AND DOPED ZnO NANOMATERIALS USING CONTROLLED SOL-GEL METHOD FOR APPLICATIONS AS A TRANSPARENT CONDUCTING OXIDE**, the candidate contributes to scholarship on ZnO-based transparent conducting material, focusing on the development of optically as well as electrically active and compatible ZnO nanostructures with exploring approaches and techniques for the possible use of ZnO as a transparent conducting oxide (TCO) layer in several optoelectronics applications, in particular solar cells, using a controlled refluxed sol-gel method. Seid produced a lot of different samples in laboratory by carefully controlling various process parameters (like precursors, doping and heat treatments etc.), with the use of many characterization techniques to acquire property results. The study presents the assurance that a careful optimization of sol-gel process parameters is essential and helpful to control the structural, morphological, optical and electrical properties of the nanomaterial which leads to fabricate a superior ZnO-based TCO materials.

Promoter: Prof FB Dejene

Co-Promoter: Dr LF Koao

WERTA, Solomon Zerihun

Solomon Werta was born on 20 April 1989 in the Historical Area of Gondar, Amhara province, Ethiopia. He matriculated at Mekane Eyesus Higher and Preparatory School in 2003. Later he joined University of Gondar, Ethiopia and graduated with a BSc degree in Applied physics in 2010 and a Master of Science at Addis Ababa University in 2013. His career began as a Graduate Assistance in 2010 and then as Lecturer in 2013 at Dire Dawa University and rose through to the rank of Assistant Professor in Physics and furthermore he was head of department of physics at Dire Dawa University.



With his thesis, **ELECTRODEPOSITION AND CHARACTERIZATION OF CADMIUM SULFIDE AND CADMIUM ZINC SULFIDE THIN FILMS FOR SOLAR CELL APPLICATION**, the candidate contributes to scholarship on the improvement of thin film solar cell, focusing on how to improve the energy band gap and reducing absorption loss solar panels. Using electrodeposition technique, Solomon grows numerous uniformly electrodeposited thin films by varying different deposition parameters for both cadmium sulfide and cadmium zinc sulfide compounds. He varied deposition temperature, bath stirring rate and deposition time for cadmium sulfide and also for cadmium zinc sulfide, concentration of zinc, cathodic deposition voltage and bath pH was varied. The result showed that, both materials can alternatively use as window material for solar cell applications. Especially zinc doped cadmium sulfide thin film has an improved energy band gap and lower absorption loss.

Promoter: Prof FB Dejene

Co-Promoter: Dr OK Echendu

DOCTOR OF SCIENCE IN ZOOLOGY

JUMBAM, Keafon Ranissi

Keafon Jumbam was born on 13 January 1978 in the North West Province of Cameroon where she matriculated at St. Augustine's College in 1997. She obtained her BSc degree in 2003 and BSc Hons (cum laude) in 2005 at Walter Sisulu University. She graduated with MSc Zoology (cum laude) at Stellenbosch University in 2008. She worked for seven years as an entomologist and educator for limbovane Outreach Project at Stellenbosch University. She has won a total of R42 500 in PhD competitions and is currently a post-doctoral fellow at the School of Physiology at the University of Witwatersrand.

With her thesis, **SOCIAL, ECOLOGICAL AND PERSONALITY FACTORS INFLUENCING BATEARED FOX FORAGING BEHAVIOUR**, the candidate contributes valuable insight into the foraging ecology of a nocturnal canid through long-term, fine-scale daily documentation of its foraging behavior in the wild. It is the first study to have explicitly used observational methods in such fine-grained research on wild canids, thus broadening the scope of foraging discourse beyond traditional indirect sampling methods. By using models including Generalized Linear Mixed Effect Models and Monte-Carlo processes, the candidate demonstrated low individual differences in foraging behaviours within the study population alluding to high individual plasticity within the species. Her study unravels intricate relationships between foraging rates, parenting behavior and hormone levels in this canid. It also highlights novel behavioural strategies employed by parents to mitigate stress levels.

Promoter: Prof A le Roux

The Main Procession graduation gowns - embroidered with rich diversity

South Africa, and the Free State in particular, has a long-standing friendship with our neighbouring country, Lesotho.

Through a shared history, we have become co-creators of our futures. For this reason, the UFS decided to incorporate our tradition with that of the Basotho in the design of our Main Procession graduation gowns.

The gowns are inspired by the Seanamarena – the traditional Basotho blanket. The different patterns on the Seanamarena indicate the status one holds in the Basotho nation or reflect the occasion being celebrated. Keeping the Seanamarena pattern in mind, we combined our traditional academic designs with that of the Basotho nation.

YOKE PATTERNS

Yoke pattern for the Chancellor and Vice-Chancellor

This Seanamarena pattern is an interpretation of a design – used exclusively for the king and chiefs –which means “to swear by the king”. This blanket has the highest status of all Basotho blankets.



Yoke pattern for the Chairperson of the Council

This Seanamarena Victorian crest motif appeared after the visit of the Prince of Wales to Lesotho in 1925, which made a profound impression on the local people. Customers refer to this blanket as 'lesiba' – meaning feathers – when buying it.



Yoke pattern for the Vice-Rector

This Seanamarena Poone design symbolises good crops, wealth, and fertility. The Poone is given as a present to honour an important visitor.



Yoke pattern for Registrar

The same Seanamarena Poone design used for the Vice-Rector applies to the Registrar, with some slight design and colour alterations.

The Deans wear gowns made in the colours of the faculties or others which indicate the office they hold.





CONGRATULATIONS FROM THE ALUMNI OFFICE

Warmest congratulations on your graduation and best wishes for your next adventure! We are very proud of you. We hope that you will stay in touch with your Alma Mater and share your future achievements with other Kovsie alumni.

CELEBRATE EXCELLENCE

Alumni are a real measure of a university's brand and we strive to keep you informed of the crop of exceptional young leaders and pioneers emerging from the UFS. We do this through our online platforms, social media, publications like *BULT* and events such as the Chancellor's Distinguished Alumni Awards.

GROW THE COMMUNITY

We exist not only to keep you, our most valued brand ambassadors, connected to your alma mater but to help you stay connected to each other. We encourage engagement and networking opportunities through events, informal visits and guest lectures. You can connect with alumni globally and reconnect with former class mates through the Alumni Office.

CELEBRATE ACHIEVEMENTS

The extraordinary achievements of Kovies, both current and past, have placed the University of the Free State on the world stage.

Read about some of those achievements at: www.ufs.ac.za/alumni/noteworthy-alumni. These alumni have gone on to inspire the next generation of Kovies and their communities.

GIVE BACK

The UFS values your financial contributions, your time and your skills. Strengthen your bond with your Alma Mater by becoming involved in projects, events and initiatives aimed at creating a fulfilling student and alumni experience for fellow Kovies.

Give to a variety of impactful projects via

- the Kovie ABSA affinity credit card
- a MySchool card
- Mentorship opportunities
- Organisational involvement
- Our donations web page www.ufs.ac.za/giving

UPDATE YOUR DETAILS

- email: alumni@ufs.ac.za – Include your date of birth, cell phone number and full names or
- online at www.ufs.ac.za/alumni

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